ACCESS SERVICE TARIFF PART 5

Special Access Service

7.9 Digital Data Service

7.9.1 Basic Channel Description

A Digital Data Channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, 19.2, 56 or 64.0* Kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. Digital Data channels are provided as either hubbed or non-hubbed services between customer designated premises and a Telephone Company hub or hubs. The hubs providing hubbed digital service and the wire centers providing non-hubbed digital service are identified in National Exchange Carrier Association, Inc., Wire Center Information, Tariff F.C.C. No. 4.

The customer may provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the Digital Data channel at the customer premises.

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds (if provided through a Digital Data hub) while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62310.

Rate and charges for Special Access Digital Data Service are as set forth in 17.3.7 following.

(*) When 64.0 Kbps service is multiplexed on a DS1 High Capacity service, the DS1 must be equipped to provide Clear Channel Capability.

Special Access Service

7.9 Digital Data Service

7.9.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 15.2.1(F) following. Compatible channel interfaces are set forth in 15.2.2(C)(6) following.

The following network channel interfaces (NCIs) define the bit rates that are available for a Digital Data channel:

NCI	Bit Rate
DU-24	2.4 Kbps
DU-48	4.8 Kbps
DU-96	9.6 Kbps
DU-19	19.2 Kbps
DU-56	56.0 Kbps
DU-64	64.0 Kbps

Special Access Service

7.11 Digital Data Service (Cont'd)

7.9.3 Optional Features and Functions

The Optional Features and Functions described in (A), (B), and (C) following are only available where Digital Data Service is provided via hub. The Optional Features and Functions described in (D) following are available where Digital Data Service is provided on a non-hubbed basis.

(A) Central Office Bridging Capability

Bridging is not available on a 64.0 Kbps Channel.

(B) Transfer Arrangement

An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access channel(s) on a 1xN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer designated premises. This arrangement is only available at a Telephone Company designated hub. A key activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as a part of the option.

(C) Public Packet Switching Network (PPSN) Interface Arrangement

An arrangement that provides the interface requirements that permit a Digital Data Service to interface with a Public Packet Switching Network packet switch located in a Telephone Company premises. The interface is compatible with X.25 and X.75 packet switching protocols as defined by the CCITT.

The table set forth in 15.2.1(F) following shows the technical specifications packages with which the optional features and functions are available.

Special Access Service

7.10 High Capacity Service

7.10.1 Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 64.0 Kbps* or 1.544, 3.152, 6.312, 44.736, or 274.176 Mbps isochronous serial data. The actual bit rate is a function of the channel interface selected by the customer. High Capacity channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

The customer may provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises.

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75% over a continuos 24 hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62411.

Rates and charges for Special Access High Capacity Service are as set forth in 17.3.8 following.

* Available only as a channel of a 1.544 Mbps facility to a Telephone Company Digital Data hub or as a cross connect of two 2.4, 4.8, 9.6, 56.0 or 64.0 Kbps channels of two 1.544 Mbps facilities to a Digital Data hub(s). The customer must provide system and channel assignment data.

(x) Transcribed from 15.2.1(G) following.

Special Access Service

7.10 High Capacity Service (Cont'd)

7.10.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 15.2.1(G) following. Compatible channel interfaces are set forth in 15.2.2(C)(7) following.

The following network channel interfaces (NCIs) define the bit rates that are available for a High Capacity channel:

NCI	Bit Rate
DS-15*	1.544 Mbps (DS1)
DS-27	274.176 Mbps (DS4)
DS-31	3.152 Mbps (DS1C)
DS-44	44.736 Mbps (DS3)
DS-63	6.312 Mbps (DS2)

* A 64.0 Kbps channel is available as a channel(s) of a 1.544 Mbps channel to a Telephone Company hub.

Special Access Service

7.10 High Capacity Service (Cont'd)

7.10.3 Optional Features and Functions

(A) Automatic Loop Transfer

The Automatic Loop Transfer provides protection on a 1xN basis against failure of the facilities between a customer designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel line when a working line fails. The spare channel is not included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer designated premises. The customer is responsible for providing the equipment at its designated premises. Equipment at the customer designated premises will be provided under tariff only if it existed in the Telephone Company inventory as of November 18, 1983.

(B) Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer designated premises. A key activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as part of the option.

Special Access Service

7.10 High Capacity Service (Cont'd)

7.10.3 Optional Features and Functions (Cont'd)

(C) Central Office Multiplexing

(1) DS4 to DS1

An arrangement that converts a 274.176 Mbps channel to 168 DS1 channels using digital time division multiplexing.

(2) DS3 to DS1

An arrangement that converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

(3) DS2 to DS1

An arrangement that converts a 6.312 Mbps channel to four DS1 channels using digital time division multiplexing.

(4) DS1C to DS1

An arrangement that converts a 3.152 Mbps channel to two DS1 channels using digital time division multiplexing.

(5) DS1 to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel(s) of this DS1 to the Hub can also be used for a Digital Data Service.

(6) DS1 to DSO

An arrangement that converts a 1.544 Mbps channel to 23 64.0 Kbps channels utilizing digital time division multiplexing.

Special Access Service

7.10 High Capacity Service (Cont'd)

7.10.3 Optional Features and Functions (Cont'd)

(C) Central Office Multiplexing (Cont'd)

(7) DSO to Subrate

An arrangement that converts a 64.0 Kbps channel to subspeeds of up to twenty 2.4 Kbps, ten 4.8 Kbps, or five 9.6 Kbps channels using digital time division multiplexing.

The table set forth in 15.2.1(G) following shows the technical specifications packages with which the optional features and functions are available.

(D) Clear Channel Capability (CCC)

(1) CCC is an arrangement that allows a customer to transport 1.536 Mbps information rate signals over a 1.544 Mbps High Capacity channel or over a 1.544 Mbps High Capacity channel derived from a multiplexed 44.736 Mbps High Capacity channel with no constraint on the quantity or sequence of one and zero bits. This arrangement requires the customer signal at the channel interface to conform to Bipolar with Eight Zero Substitution (B8ZS) line code as described in Technical Reference TR-NPL-000054 and Technical Reference TR-INS-000342.

(2) CCC is provided, subject to availability of facilities, on DS1/1.544 Mbps High Capacity channels* between two customer designated premises and on multiplexed DS3/44.736 Mbps High Capacity channels or multiplexed DS1/1.544 Mbps High Capacity channels* between a Telephone Company hub office and a customer designated premises. The wire centers providing CCC are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC., WIRE CENTER INFORMATION, TARIFF F.C.C. NO. 4.

* Available only on a DS1-to-Digital multiplexed configuration.

Special Access Service

7.10 High Capacity Service (Cont'd)

7.10.3 Optional Features and Functions (Cont'd)

(D) Clear Channel Capability (CCC) (Cont'd)

(3) The CCC optional feature may be ordered at the same time the High Capacity service is ordered or it may be ordered as an addition to an existing High Capacity Service. The customer must agree to out-of-service periods required to add this feature to an existing High Capacity Service. The charges for the CCC optional feature are as set forth in 7.2.2(C) (3) preceding.

7.11 Individual Case Filings

Certain services set forth in Special Access Service, Section 7. are provided on an Individual Case Basis. Rates and charges for Special Access Service provided on an Individual Cases Basis are set forth in 17.3.9 following.

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Directory Assistance Service

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Directory Assistance Service

The Telephone Company will provide Directory Assistance (DA) Service to a customer from Directory Assistance Service locations (DA location). DA locations are either primary or subtending. Primary DA locations are those to which terminating DA calls for the NPA first complete. Primary DA location either process the telephone number request or, if necessary, forward the call to a subtending DA location for processing. DA service rates are assessed by the primary DA location only. Subtending DA locations are compensated by contractual arrangements between Telephone Companies.

9.1 General Description

Telephone Company provided DA Service is available to customers for their use in furnishing DA services to end users. It provides for the use of Directory Access Service between the premises of the ordering customer and the DA location(s), use of DA access equipment, and use of DA operators to provide telephone numbers.

Directory Access Service will be provided between the customer designated premises and the DA location by the Telephone Company. Rates and charges for Directory Assistance Service are set forth in 17.2.4 following.

Directory Assistance Service

9.1 General Description (Cont'd)

9.1.1 Description and Provision of Directory Assistance Service

A Telephone Company DA operator, when furnished a name and locality, will provide or attempt to provide the telephone number listed in the Telephone Company DA records associated with the name given, at the rates and charges as set forth in 17.2.5 following. The Telephone Company's contact with the customer's end user shall be limited to that effort necessary to process a customer's end user's request for a telephone number; and the Telephone Company will not transfer, forward or redial a customer's end user call to any other location for any purpose other than provision of DA Service.

Each Directory Access Service will consist of the following:

- An Interface Group equipped with an available Premises Interface as set forth in 15.3.1 following at the customer's designated premises.

- Directory Transport between the premises of the ordering customer and the DA location.

When required by the Telephone Company, a separate Directory Access Service trunk group will be provided for DA Service for each NPA. Separate trunk groups will be required when the Telephone Company notifies the customer that the mechanized search of its data base and its mechanized operator practices require a mechanized identification of the NPA code for which the customer's end user desires DA information.

Further, when an access tandem is available and is provided, the Directory Access Service will be provided, at customer choice:

- as a separate Directory Access Service trunk group, or

- in combination with Feature Group B, C or D Switched Access Service.

Directory Assistance Service

9.1 General Description (Cont'd)

9.1.2 Ordering Options and Conditions

(A) Ordering

Except as set forth following, Directory Assistance Service provided under a Special Order is subject to the ordering conditions as set forth in Section 5. preceding. The customer shall determine and order the busy hour minutes of capacity and interface type of Directory Access Services it needs for DA Service.

When DA Service is initially ordered, the customer shall order the service for at least six months. Thereafter, additional service may be ordered for a minimum of six months. Not later than three months prior to the end of the six month period, the customer shall notify the Telephone Company if the service is to be discontinued at the end of the six month period. If no notice is received from the customer, the Telephone Company will automatically extend the service for another six months and all appropriate charges as set forth in 17.2.5 following will apply for another six months.

Directory Assistance Service

9.1 General Description (Cont'd)

9.1.2 Ordering Options and Conditions (Cont'd)

(B) Cancellation of a Special Order

A customer may cancel a Special Order for DA Service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the Special Order is to be cancelled. The verbal notice must be followed by written confirmation within 10 days.

When a customer cancels a Special Order for DA Service after the order date but prior to the start of service, the appropriate application of charges as set forth in Section 5. preceding apply for the Directory Access Service cancelled. In addition, a charge equal to any unrecoverable capital costs incurred by the Telephone Company will apply to the customer.

(C) Changes to Special Orders

When a customer requests changes to a pending order for DA Service, such changes will be undertaken if they can be accommodated by the Telephone Company. The appropriate application of charges as set forth in Section 5. preceding apply for the Directory Access Service changed. In addition, a charge equal to any other costs incurred by the Telephone Company because of the change will apply.

Directory Assistance Service

9.1 General Description (Cont'd)

9.1.3 Rate Categories

There are two rate categories which apply to Directory Assistance Service:

- Directory Assistance Service Call
- Directory Transport Service

(A) Directory Assistance Service Call

The Directory Assistance Service Call rate category provides for the use of general DA Services such as operators and DA access equipment necessary to provide DA Service to a customer.

(B) Directory Transport Service

Directory Transport Service provides the transmission facilities and transport termination between the premises of the ordering customer and the DA location. For purposes of determining Directory Transport Mileage, distance will be measured from the wire center that normally serves the customer premises to the DA location(s).

Directory Transport is a two-way voice frequency transmission path composed of Switched Access Local Transport facilities as set forth in 6.1.3 preceding. The two-way voice frequency path transports calls in the terminating direction (from the premises of the ordering customer to the DA location). The following rate elements, which are more fully described in 6.1.3(A) preceding, are applicable.

Directory Assistance Service

9.1 General Description (Cont'd)

9.1.3 Rate Categories (Cont'd)

(B) Directory Transport Service (Cont'd)

- Entrance Facility for the transport of the DA call from the customer's premises to the serving wire center of that premises.

- Direct Trunked Transport (i.e., Direct Trunked Facility and Direct Trunked Termination) for the transport of the DA call from the customer's serving wire center to the DA location without switching at a tandem or from the serving wire center to the tandem.

- Tandem Switched Transport (i.e., Tandem Switched Facility, Tandem Switched Termination, and Tandem Switching) for the transport of the DA call from the customer's serving wire center to the DA location with switching at a tandem, or from the tandem to the DA location.

- Residual Interconnection Charge for the Local Transport costs that are not recovered by the Entrance Facility, Direct Trunked Transport, Tandem Switched Transport, Multiplexing, or dedicated signaling (i.e., SS7) rates.

- Multiplexing DS3 to DS1 Multiplexing charges apply when a High Capacity DS3 Entrance Facility or Direct Trunked Facility is connected with High Capacity DS1 Direct Trunked Transport. The DS3 to DS1 multiplexer will convert a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

Directory Assistance Service

9.1 General Description (Cont'd)

9.1.3 Rate Categories (Cont'd)

(B) Directory Transport Service (Cont'd)

DS1 to Voice Grade Multiplexing charges apply when a High Capacity DS1 Entrance Facility or Direct Trunked Facility is connected with Voice Grade Direct Trunked Transport. A DS1 to Voice Grade Multiplexing charge does not apply when a High Capacity DS1 Direct Trunked Facility is terminated at an electronic end office and only Switched Access Service is provided over the DS1 facility (i.e., Voice Grade Special Access channels are not derived). The DS1 to voice multiplexer will convert a 1.544 Mbps channel to 24 Voice Grade channels.

Multiplexing is only available at wire centers identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC., TARIFF F.C.C. NO. 4, WIRE CENTER INFORMATION.

The customer will specify whether the Directory Access Service is to be routed directly to a DA location or through an access tandem switch appropriately equipped for DA measurement and served by DA trunks to the DA location when such an access tandem switch is available. The combination of Feature Group B, C or D Switched Access Service with DA Service will only be provided at such available and appropriately equipped access tandem switches.

Directory Assistance Service

9.1 General Description (Cont'd)

9.1.3 Rate Categories (Cont'd)

(B) Directory Transport Service (Cont'd)

When Directory Transport is provided using a Direct Trunked Transport to the DA location, no address signaling is provided. When Directory Transport is provided with the use of an access tandem switch, wink start-start pulsing signaling is provided at the access tandem switch. When access tandem routing is provided, the customer shall address each call to the DA location using NPA + 555 + 1212 or when required by the Telephone Company, 555-1212. Only NPA codes handled by the DA location served by the access tandem switch will be processed.

Directory Transport is provided with one of the Local Transport Interface Groups as set forth in 15.1.1 following.

9.1.4 Special Facilities Routing

A customer may request that Directory Access Service be provided via Special Facilities Routing. The regulations, rates and charges for Special Facility Routing (Avoidance, Diversity and Cable Only) are as set forth in 11. following.

Directory Assistance Service

9.1 General Description (Cont'd)

9.1.5 Design Layout Report

The Telephone Company will provide to the customer the makeup of the facilities and services provided under this section as Directory Access Service. This information will be provided in the form of a Design Layout Report similar to that set forth in 6.1.5 preceding. Design Layout Reports for Directory Access Service will be provided only when specifically requested by the customer. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever the facilities provided for the customer's use are materially changed.

9.2 Undertaking of the Telephone Company

9.2.1 Number of Telephone Number Requests

A maximum of two (2) requests for telephone numbers will be accepted per call to Directory Assistance and DA operators will not transfer, forward or redial the call to another location for any purpose other than the provision of DA Service.

9.2.2 Telephone Number Availability

A telephone number which is not listed in DA records will not be available to the customer's end user.

Directory Assistance Service

9.2 Undertaking of the Telephone Company (Cont'd)

9.2.3 Selection of DA Locations

The Telephone Company will specify the DA location which provides the DA Service for each numbering plan area code (NPA). The DA locations are as shown in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. , TARIFF F.C.C. No. 4.

When it becomes necessary to change a DA location, as determined by the Telephone Company, the Telephone Company will notify the involved customers six months prior to the change. For such changes, the regulations as set forth in 2.1.7 preceding apply.

9.2.4 Transmission Specifications

Each Directory Assistance Service transmission path is provided with standard transmission specifications, either Type A or B, as set forth respectively in 15.1.2(E) and (F) following. The specifications associated with the parameters are guaranteed to the DA location. The standard for a particular transmission path is dependent upon the following:

- Whether Directory Access Service is provided in combination with Feature Group B, C or D Switched Access Service, or

- When not provided in combination with Switched Access Service, whether routed direct or via an access tandem switch.

The available transmission specifications are set forth in 15.3.2 following.

Directory Assistance Service

9.2 Undertaking of the Telephone Company (Cont'd)

9.2.5 Testing

(A) Acceptance Testing

The acceptance testing capabilities for Directory Access Service traffic routed through an access tandem are the same as those for the associated Feature Group C or D end office switching. The acceptance testing for Directory Access Service traffic routed directly, or routed in separate trunk groups through an access tandem to the DA location will be the same as that for Switched Access Service as set forth in 6.2.4 preceding.

(B) Routine Testing

Routine testing capabilities for Directory Access Service traffic routed through an access tandem are the same as those for the associated Feature Group C or D end office switching. Routine testing capabilities for Directory Access Service traffic routed directly, or routed in a separate trunk group through an access tandem, to the DA location, will be as set forth in 13.3.1(A)(3) following (Additional Manual Testing).

9.2.6 Determination of Number of Transmission Paths

The number of Directory Transport transmission paths provided is based on the customer's order and is determined by the Telephone Company in a manner similar to Switched Access Service transmission paths as set forth in 6.2.5 preceding.

9.2.7 Supervisory Signaling

Trunk side switching is provided at the DA Service access location. The DA Service access location will provide trunk answer and disconnect supervisory signaling.

Directory Assistance Service

9.3 Obligations of the Customer

In addition to the obligations of the customer as set forth in Section 2. preceding, the customer has certain specific obligations concerning the use of Directory Assistance Service. These obligations are as follows:

9.3.1 Jurisdictional Reports

Directory Transport may, at the option of the customer, be provided for both interstate and intrastate communications. When the customer requests such mixed access, the intrastate Directory Transport charges will be determined by the Telephone Company using the data furnished by the customer as set forth in 2.3.11 preceding.

9.3.2 Supervisory Signaling

The customer facilities at the premises of the ordering customer shall provide the necessary on-hook and off-hook supervision.

Directory Assistance Service

9.3 Obligations of the Customer (Cont'd)

9.3.3 Ordering of Separate Trunk Groups

When requested by the Telephone Company, the customer shall order a separate trunk group for DA Service for each NPA. The conditions when the customer will be requested to order separate trunk groups for each NPA are set forth in 9.1.1 preceding.

9.3.4 Notice of Discontinuance of Service

DA Service is ordered and renewed for a minimum period of six months at a time, as set forth in 9.1.2(A) preceding. Not later than three months prior to the end of any six month period, the customer shall notify the Telephone Company if the service is to be discontinued at the end of that period.

Directory Assistance Service

9.4 Rate Regulations

This section contains the specific regulations governing rates and charges that apply for Directory Assistance Service.

9.4.1 Nonrecurring Charges

Nonrecurring charges for DA Service are one-time charges that apply for a specific work activity (i.e., installation, change to an existing service and DA Service rearrangements).

(A) Installation of Service

Nonrecurring Local Transport Installation and Direct Trunked Transport Activation charges as set forth in 17.2.1(A) and (E) following are applied as set forth in 6.4.1(B)(1) preceding to each Directory Access Service installed.

(B) DA Service Rearrangements

All changes to existing services other than changes involving administrative activities will be treated as a discontinuance of the existing service and an installation of a new service.

9.4 Rate Regulations (Cont'd)

9.4.2 Directory Assistance Service Call Charge

The Directory Assistance service call charge, as set forth in 17.2.5(A) following, applies for each call to DA Service. A call is a call which has been answered by a DA operator. The charge applies whether or not the DA operator provides the requested telephone number. The number of calls answered by DA operators will be accumulated by Telephone Company measuring equipment. A credit for the provision of an incorrect telephone number will be applied as set forth in 9.4.8 following.

9.4.3 Directory Transport Service

The premium Local Transport charges set forth in 17.2 following are also applicable to Directory Transport Service and will be assessed on the same basis as the Switched Access Local Transport rate elements set forth in 6.1.3(A) preceding:

- Entrance Facility
- Direct Trunked Transport
- Tandem Switched Transport
- Multiplexing
- Residual Interconnection Charge

Directory Assistance Service

9.4 Rate Regulations (Cont'd)

9.4.4 Minimum Periods

The minimum period for which DA Service and the Directory Access Service is provided and for which charges apply is six months. A minimum period of six months applies for each additional period of service ordered or extended.

If DA Service is discontinued prior to the end of each six month period, the charges that apply for the remaining months are the non-recoverable costs. Such costs include the non-recoverable cost of equipment and material ordered, provided or used, plus the non-recoverable cost of installation and removal including the costs of engineering, labor supervision, transportation, rights-of-way and other associated costs less estimated net salvage.

The minimum period for which High Capacity DS3 Entrance Facilities or High Capacity DS3 Direct Trunked Transport is provided is twelve months.

9.4.5 Minimum Monthly Charge

DA service is subject to a minimum monthly charge. The minimum monthly charge is calculated as follows:

The minimum monthly charge for Directory Assistance Service calls is the charge as set forth in 17.2.5(A) following for the actual usage for the month.

For the Directory Transport rate element, the minimum monthly charge the customer will be assessed will be the usage charges based on actual usage. For flat rated Directory Transport rate elements, the minimum monthly charge is the sum of the recurring charges prorated to the number of days or major fraction of days based on a 30 day month. Rates for Directory Transport are set forth in 17.2.2 following.

Directory Assistance Service

9.4 Rate Regulations (Cont'd)

9.4.6 DA Service Rearrangements

Nonrecurring charges apply for service rearrangements. Service rearrangements and the regulations concerning the application of associated nonrecurring charges are as set forth in 6.4.1(B)(3) preceding.

9.4.7 Moves

A move involves a change in the physical location of the point of termination at the customer designated premises or of the customer designated premises. Moves will be treated as set forth in 6.4.4 preceding and all associated nonrecurring charges will apply. Minimum period requirements will be established at the new location as set forth in 6.4.4 preceding. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

9.4.8 Credit Allowance for Service Outages and Incorrect Numbers

(A) When the DA location or DA operator equipment or terminals are out of service due to a Telephone Company equipment failure a credit allowance is provided. When an incorrect number is provided and a customer DA call has been answered by a DA operator, a credit allowance is provided. The credit allowance provided is equal to the rate for a Directory Assistance Service Call as set forth in 17.2.5(A) following. The credit will be applied to the customer's charges.

Directory Assistance Service

9.4 Rate Regulations (Cont'd)

9.4.8 Credit Allowances for Service Outages and Incorrect Numbers (Cont'd)

(B) In addition to the credit as set forth in (A) preceding, when a DA operator or DA equipment provides an incorrect number for a call and the customer reports such occurrences to the Telephone Company, a credit allowance for the Switched Access portion of the call in the originating LATA of such DA call will apply. The credit will be as set forth in (C) following. When the customer reports such a call and the number requested, the number provided and the reason the number provided is incorrect, the number of calls for which a credit will apply will be developed by the Telephone Company in cooperation with the customer.

(C) When a DA call is not completed due to the failure of Directory Access Service to DA locations, DA access equipment or DA operator activities, a credit allowance for the Switched Access Service portion in the originating LATA of such DA call will apply. When the customer reports such a call and DA number dialed, time of the call and the date of the call, the number of calls for which a credit will apply will be developed by the Telephone Company in cooperation with the customer. The credit will be as set forth in 17.2.5(C) following. Credit allowances for other services interruptions will be provided as set forth in 2.4.4 preceding.

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Special Facilities Routing of Access Services

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Special Facilities Routing of Access Services

11.1 Description

The services provided under this tariff are provided over such routes and facilities as the Telephone Company may elect. Special Facilities Routing is involved when, in order to comply with requirements specified by the customer, the Telephone Company provides Switched Access Service, Special Access Service or Special Federal Government Access Service in a manner which includes one or more of the following conditions:

11.1.1 Diversity

Two or more circuits must be provided over not more than two different physical routes.

11.1.2 Avoidance

A circuit(s) must be provided on a route which avoids specified geographical locations.

11.1.3 Diversity and Avoidance Combined

11.1.4 Cable-Only Facilities

Certain Voice Grade services are provided on Cable-Only Facilities to meet the particular needs of a customer.

Service is provided subject to the availability of Cable-Only facilities. In the event of service failure, restoration will be made through the use of any available facilities as selected by the Telephone Company.

Avoidance and Diversity are available on Switched Access Service as set forth in Section 6. preceding; Metallic, Telegraph Grade and Voice Grade Special Access Services as set forth respectively in 7.4, 7.5 and 7.6 preceding and Special Federal Government Access Services as set forth in 10.5 preceding. Cable-Only Facilities are available for Switched Access Service as set forth in Section 6. preceding; Voice Grade Special Access Services as set forth in 7.6 preceding and Special Federal Government Access Services as set forth in 10.5 preceding.

Specialized Service or Arrangements

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Specialized Service or Arrangements

12.1 General

Specialized Service or Arrangements may be provided by the Telephone Company, at the request of a customer, on an individual case basis if such service or arrangements meet the following criteria:

- The requested service or arrangements are not offered under other sections of this tariff.
- The facilities utilized to provide the requested service or arrangements are of a type normally used by the Telephone Company in furnishing its other services.
- The requested service or arrangements are provided within a LATA.
- The requested service or arrangements are compatible with other Telephone Company services, facilities, and its engineering and maintenance practices.
- This offering is subject to the availability of the necessary Telephone Company personnel and capital resources.

Rates and charges and additional regulations if applicable, for Specialized Service or Arrangements are provided on an individual case basis and are as set forth in 17.4.7 following.

Additional Engineering, Additional Labor and Miscellaneous Services

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Additional Engineering, Additional Labor and Miscellaneous Services

Section 13.1 addresses Additional Engineering. Section 13.2 addresses Additional Labor (which is comprised of Overtime Installation, Overtime Repair, Standby, Testing and Maintenance with Other Telephone Companies, and Other Labor). Section 13.3 addresses Miscellaneous Services (which are comprised of Testing Services, Maintenance of Service and Telecommunications Service Priority). Section 13.4 addresses Presubscription. Section 13.8 addressed Blocking Service. Section 13.9 addressed Billing Name and Address Service. Section 13.10 addresses the Provision of Access Service Billing Information.

In this section, normally scheduled working hours are an employee's scheduled work period in any given calendar day (e.g., 8:00 a.m. to 5:00 p.m.) for the application of rates based on working hours.

A Miscellaneous Service Order Charge as described in 5.4.2 preceding may be applicable to services ordered from this section.

13.1 Additional Engineering

Additional Engineering, including engineering reviews as set forth in 5.4.3 preceding, will be undertaken only after the Telephone Company has notified the customer that additional engineering charges apply as set forth in 17.4.2 following, and the customer agrees to such charges.

Additional Engineering will be provided by the Telephone Company at the request of the customer only when:

(A) A customer requests additional technical information after the Telephone Company has already provided the technical information normally included on the Design Layout Report (DLR) as set forth in 6.1.5 and 7.1.6 preceding.

(B) Additional Engineering time is incurred by the Telephone Company to engineer a customer's request for a customized service as set forth in 7.1.2 preceding.

(C) A customer requested Design Change requires the expenditure of Additional Engineering time. Such additional engineering time is incurred by the Telephone Company for the engineering review as set forth in 5.4.3 preceding. The charge for additional engineering time relating to the engineering review, which is undertaken to determine if a design change is indeed required, will apply whether or not the customer authorizes the Telephone Company to proceed with the Design Change. In this case the Design Change charge, as set forth in 17.4.1(B) following, does not apply unless the customer authorizes the Telephone Company to proceed with the Design Change.

Additional Engineering, Additional Labor and Miscellaneous Services

13.2 Additional Labor

Additional Labor is that labor requested by the customer on a given service and agreed to by the Telephone Company as set forth in 13.2.1 through 13.2.5 following. The Telephone Company will notify the customer that Additional Labor charges as set forth in 17.4.3 following will apply before any additional labor is undertaken. A call-out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours. When provisioning or restoring Telecommunications Service Priority services, the Telephone Company will, when possible, notify the customer of the applicability of these Additional Labor charges.

13.2.1 Overtime Installation

Overtime installation is that Telephone Company installation effort outside of normally scheduled working hours.

13.2.2 Overtime Repair

Overtime repair is that Telephone Company effort performed outside of normally scheduled working hours.

13.2.3 Standby

Standby includes all time in excess of one-half (1/2) hour during which Telephone Company personnel standby to make installation acceptance tests or cooperative tests with a customer to verify facility repair on a given service.

13.2.4 Testing and Maintenance with Other Telephone Companies

Additional testing, maintenance or repair of facilities which connect other telephone companies is that which is in addition to the normal effort required to test, maintain or repair facilities provided solely by the Telephone Company.

13.2.5 Other Labor

Other labor is that additional labor not included in 13.2.1 through 13.2.4 preceding and labor incurred to accommodate a specific customer request that involves only labor which is not covered by any other section of this tariff.

13.3 Miscellaneous Services

13.3.1 Testing Services

Testing Services offered under this section of the tariff are optional and subject to rates and charges as set forth in 17.4.4 following. A call-out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours. Other testing services, as described in 6.2.4 and 7.1.7 preceding, are provided by the Telephone Company in association with Access Services and are furnished at no additional charge.

Testing Services are normally provided by Telephone Company personnel at Telephone Company locations; however, provisions are made in (B) (2) following for a customer to request Telephone Company personnel to perform Testing Services at the customer designated premises.

The offering of Testing Services under this section of the tariff is made subject to the availability of the necessary qualified personnel and test equipment at the various test locations mentioned in (A) and (B) following.

(A) Switched Access Service

Testing Services for Switched Access are comprised of (a) tests which are performed during the installation of a Switched Access Service, (i.e., Acceptance Tests), (b) tests which are performed after customer acceptance of such access services and which are without charge (i.e., routine testing) and (c) additional tests which are performed during or after customer acceptance of such access services and for which additional charges apply, (i.e., Additional Cooperative Acceptance Tests and in-service tests).

13.3 Miscellaneous Services (Cont'd')

13.3.1 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

Routine tests are those tests performed by the Telephone Company on a regular basis, as set forth in 6.2.4 preceding which are required to maintain Switched Access Service. Additional in-service tests may be done on an automatic basis (no Telephone Company or customer technicians involved), on a manual basis [Telephone Company technician(s) involved at Telephone Company office(s) and Telephone Company or customer technician(s) involved at the customer designated premises].

Testing services are ordered to the Dial Tone Office for FGA, to the access tandem or end office for FGB (wherever the FGB service is ordered) and to the end office for FG's C and D. Testing Services for Directory Assistance Service not routed through an access tandem is ordered to a Directory Assistance Location for each NPA.

(1) Additional Cooperative Acceptance Testing

Additional Cooperative Acceptance Testing of Switched Access Service involves the Telephone Company provision of a technician at its office(s) and the customer provision of a technician at its premises, with suitable test equipment to perform the required tests.

Additional Cooperative Acceptance Tests may, for example, consist of the following tests:

- Impulse Noise
- Phase Jitter
- Signal to C-Notched Noise Ratio
- Intermodulation (Nonlinear) Distortion
- Frequency Shift (Offset)
- Envelope Delay Distortion
- Dial Pulse Percent Break

13.3 Miscellaneous Services (Cont'd)

13.3.1 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

(2) Additional Automatic Testing

Additional Automatic Testing (AAT) of Switched Access Services (Feature Groups B, C and D), is a service where the customer provides remote office test lines and 105 test lines with associated responders or their functional equivalent. The customer may order, at additional charges, gain-slope and C-notched noise testing and may order the routine tests (1004 Hz loss, C-Message Noise and Balance) on an as-needed or more than routine schedule.

The Telephone Company will provide an AAT report that lists the test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis.

The Additional Tests, (i.e., gain slope, C-notched noise, 1004 Hz loss, C-message noise and balance) may be ordered by the customer at additional charges, 60 days prior to the start of the customer prescribed schedule. The rates for Additional Automatic Tests are as set forth in 17.4.4(B) following.

13.3 Miscellaneous Services (Cont'd)

13.3.1 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

(3) Additional Manual Testing

Additional Manual Testing (AMT) of Switched Access Services (Feature Groups A, B, C, and D and Directory Access Service not routed through an access tandem), is a service where the Telephone Company provides a technician at its office(s) and the Telephone Company or customer provides a technician at the customer designated premises, with suitable test equipment to perform the required tests. Such additional tests will normally consist of gain-slope and C-notched noise testing. However, the Telephone Company will conduct any additional tests which the IC may request.

The Telephone Company will provide an AMT report listing the test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on a per occurrence basis.

The Additional Manual Tests may be ordered by the customer at additional charges, 60 days prior to the start of the testing schedule as mutually agreed to by the customer and the Telephone Company.

The rates for Additional Manual Testing are as set forth in 17.4.4(C) following.

13.3 Miscellaneous Services (Cont'd)

13.3.1 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

(4) Obligations of the Customer

(A) The customer shall provide the Remote Office Test Line priming data to the Telephone Company, as appropriate, to support routine testing as set forth in 6.2.4(B) preceding or AAT as set forth in 13.3.1(A)(2) preceding.

(B) The customer shall make the facilities to be tested available to the Telephone Company at times mutually agreed upon.

13.3 Miscellaneous Services (Cont'd)

13.3.1 Testing Services (Cont'd)

(B) Special Access Service

The Telephone Company will provide assistance in performing specific tests requested by the customer.

(1) Additional Cooperative Acceptance Testing

When a customer provides a technician at its premises or at an end user's premises, with suitable test equipment to perform the requested tests, the Telephone Company will provide a technician at its office for the purpose of conducting Additional Cooperative Acceptance Testing on Voice Grade Services. At the customers' request, the Telephone Company will provide a technician at the customer's premises or at the end user premises. These tests may, for example, consist of the following:

- Attenuation Distortion (i.e., frequency response)
- Intermodulation Distortion (i.e., harmonic distortion)
- Phase Jitter
- Impulse Noise
- Envelope Delay Distortion
- Echo Control
- Frequency Shift

Additional Engineering, Additional Labor and Miscellaneous Services

13.3 Miscellaneous Services (Cont'd)

13.3.1 Testing Services (Cont'd)

(B) Special Access Service (Cont'd)

(2) Additional Manual Testing

The Telephone Company will provide a technician at its premises, and the Telephone Company or customer will provide a technician at the customer's designated premises with suitable test equipment to perform the requested tests.

(3) Obligation of the Customer

When the customer subscribes to Testing Service as set forth in this section, the customer shall make the facilities to be tested available to the Telephone Company at times mutually agreed upon.

13.3 Miscellaneous Services (Cont'd)

13.3.2 Maintenance of Service

(A) When a customer reports a trouble to the Telephone Company for clearance and no trouble is found in the Telephone Company's facilities, the customer shall be responsible for payment of a Maintenance of Service charge as set forth in 17.4.4(F) following for the period of time from when Telephone Company personnel are dispatched, at the request of the customer, to the customer designated premises to when the work is completed. Failure of Telephone Company personnel to find trouble in Telephone Company facilities will result in no charge if the trouble is actually in those facilities, but not discovered at the time.

(B) The customer shall be responsible for payment of a Maintenance of Service charge when the Telephone Company dispatches personnel to the customer designated premises, and the trouble is in equipment or communications systems provided by other than the Telephone Company or in detariffed CPE provided by the Telephone Company.

In either (A) or (B) preceding, no credit allowance will be applicable for the interruption involved if the Maintenance of Service Charge applies.

13.3.3 Telecommunications Service Priority - TSP

(A) Priority installation and/or restoration of National Security Emergency Preparedness (NSEP) telecommunications services shall be provided in accordance with Part 64.401, Appendix A, of the Federal Communications Commission's (FCC's) Rules and Regulations.

In addition, TSP System service shall be provided in accordance with the guidelines set forth in "Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service Vendor Handbook" (NCSH 3-1-2) dated October 9, 1990, and "Telecommunications Service Priority System for National Security Emergency Preparedness Service User Manual" (NCSM 3-1-1).

13.3 Miscellaneous Services (Cont'd)

13.3.3 Telecommunications Service Priority - TSP (Cont'd)

(A) (Cont'd)

The TSP System is a service, developed to meet the requirements of the Federal Government, as specified in the Service Vendor's Handbook and Service User's Manual which provides the regulatory, administrative and operational framework for the priority installation and/or restoration of NSEP telecommunications services. These include both Switched and Special Access Services. The TSP System applies only to NSEP telecommunications services, and requires and authorizes priority action by the Telephone Company providing such services.

For Switched Access Service, the TSP System's applicability is limited to those services which the Telephone Company can discreetly identify for priority provisioning and/or restoration.

(B) A Telecommunications Service Priority charge applies as set forth in 17.4.4 when a request to provide or change a Telecommunications Service Priority is received subsequent to the issuance of an Access Order to install the service.

Additionally, a Miscellaneous Service Order Charge as set forth in 17.4.1 will apply to Telecommunications Service Priority requests that are ordered subsequent to the initial installation of the associated access service.

A Telecommunications Service Priority charge does not apply when a Telecommunications Service Priority is discontinued or when ordered coincident with an Access Order to install or change service.

In addition, Additional Labor rates as set forth in 17.4.3 may be applicable when provisioning or restoring Switched or Special Access Services with Telecommunications Service Priority.

When the customer requests an audit or a reconciliation of the Telephone Company's Telecommunications Service Priority records, a Miscellaneous Service Order Charge as set forth in 17.4.1 (D) and Additional Labor rates as set forth in 17.4.3 are applicable.

13.3 Miscellaneous Services (Cont'd)

13.3.4 Miscellaneous Equipment

(A) Controller Arrangement

This arrangement enables the customer to control up to 48 transfer functions at a Telephone Company central office via a remote keyboard terminal capable of either 300 or 1200 bps operation. Included as part of the Controller Arrangement is a dial-up data station located at the Telephone Company Central Office to provide access to the Controller Arrangement. This dial-up data station consists of a 212A DATAPHONE data set and an appropriate Telephone Company provided channel.

The Controller Arrangement must be located in the same Telephone Company central office as the transfer functions which it controls.

Charges for the Controller Arrangement are set forth in 17.4.4(H) following.

Additional Engineering, Additional Labor and Miscellaneous Services

13.4 InterLATA Presubscription (Cont'd)

Pursuant to the Federal Communications Commission's Memorandum Opinion and Order, CC Docket No. 83-1145, Phase I, adopted May 31, 1985, and released August 302, 1985, the Allocation Plan, outlined in the Appendix B of this Order, will be available for inspection in the Public Reference Room of the Tariff Division at the Federal Communications Commission's Washington D.C., location or may be obtained from the Commission's commercial contractor.

(A) Presubscription is the process by which end user customers may select and designate to the Telephone Company an IC to access, without an access code, for interLATA, intrastate calls. This IC is referred to as the end user's predesignated IC.

(B) On the effective date of this tariff, all existing end users have access to intrastate MTS/WATS. No later than 85 days prior to conversion to Feature Group D in a serving end office, the Telephone Company will notify end users of the availability of equal access in their particular area. The notification will include the names of all ICs wishing to participate in the presubscription process. This notification will be sent via U.S. Mail to each end user of record served by the end office to be converted.

(C) End users may select one of the following options at no charge:

- indicate a primary IC for all of its lines,
- indicate a different IC for each of its lines.

Only one IC may be selected for each line or lines terminating in the same hunt group.

End users may designate that they do not want to presubscribe to any IC. The end user must arrange this designation by directly notifying the Telephone Company's business office. This choice will require the end user to dial an access code (10XXX or 101XXXX) for all intrastate calls.

After the end user's initial selection of a predesignated IC or the designation that they do not want to presubscribe to any IC, for any change in selection after conversion to Equal Access in the serving end office, a nonrecurring charge, as set forth in 17.4.4(I) following applies.

13.4 InterLATA Presubscription (Cont'd)

(D) End users not responding to the initial notification will be sent a second notification for the selection of a predesignated IC no earlier than 40 days prior to or no later than 90 days after the conversion to Equal Access in a serving end office. This second notification will indicate the primary IC that has been assigned to them if they fail to respond to the second notification.

After the allocation process has been completed, end users assigned to an IC via the allocation process may change their IC one time within six months after conversion to Equal Access in the serving end office at no charge.

Following the six month period after conversion to Equal Access for any change in selection, a nonrecurring charge as set forth in 17.4.4(I) following, applies.

(E) When an end user indicates more than one IC selection on the return notification or returns an illegible return notification, the Telephone Company will contact the end user for clarification. If the end user indicates an IC selection on the return notification that does not match with information provided by an IC and both notifications indicate the same authorization date, the end user's notification takes precedence and the Telephone Company will process the end user's selection. In the event that two or more ICs provide to the Telephone Company notifications with the same authorization date and neither notification has been processed, the Telephone Company will contact the end user for clarification. A list of these end users in conflict must be sent to the affected IC by the Telephone Company.

In the event that two or more ICs have provided to the Telephone Company notifications with the same authorization date(s), and one IC notification has already been processed by the Telephone Company, those IC notifications not yet processed would be returned to the ICs.

13.4 InterLATA Presubscription (Cont'd)

(F) New end users who are served by end offices equipped with Feature Group D will be asked to presubscribe to an IC at the time they place an order with the Telephone Company for Telephone Exchange Service. They may select either of the following options. There will be no charge for this initial selection.

- designate a primary IC for all of its lines,
- designate a different IC for each of its lines.

Only one IC may be selected for each individual line, or lines terminating in the same hunt group. Subsequent to the installation of Telephone Exchange Service and after the end user's initial selection of a predesignated IC, for any change in selection, a nonrecurring charge, as set forth in 17.4.4(I) following, applies.

(G) If the new end user fails to designate an IC as its predesignated IC prior to the date of installation of Telephone Exchange Service, the Telephone Company will (1) allocate the end user to an IC based upon current IC presubscription ratios, (2) require the end user to dial an access code (10XXX or 101XXXX) for all intrastate calls, or (3) block the end user from intrastate calling. The end user will be notified which option will be applied if they fail to presubscribe to an IC. An allocated or blocked end user may designate another, or initial, IC as its predesignated IC one time at no charge, if it is requested within six months after the installation of Telephone Exchange Service.

For any change in selection after 6 months from the installation of Telephone Exchange Service, a nonrecurring charge, as set forth in 17.4.4(I) following applies.

Additional Engineering, Additional Labor and Miscellaneous Services

13.4 InterLATA Presubscription (Cont'd)

(H) If an IC elects to discontinue its Feature Group D service offering prior to or within 2 years of the conversion, the IC will notify the Telephone Company of the cancellation. The IC will also notify all end users which selected them that they are cancelling their service and that they should contact the Telephone Company to select a new primary IC. The IC will also inform the end user that it will pay the presubscription change charge. The cancelling IC will then be billed by the Telephone Company the appropriate charge for each end user for a period of two years from the discontinuance of Feature Group D service.

(I) If an IC elects to change or discontinue use of a Carrier Identification Code (CIC) for any reason other than those set forth in (H) above, the IC will identify to the Telephone Company any affected end users and advise the Telephone Company of the new CIC to be assigned to these end users. If the CIC change involves a change of carrier for any end users, the IC will notify the affected end users of the change. The Telephone Company will change the predesignated carrier code of each end user identified by the IC to the new CIC and bill the IC the nonrecurring charge set forth in 17.4.4(I) following for each end user line or trunk that is changed.

13.5 IntraLATA Presubscription

(A) IntraLATA Presubscription (ILP) is a procedure whereby an end user may select and designate to the Telephone Company an interexchange Carrier (IC) for intraLATA toll calls without dialing an access code. The end user may designate an IC for intraLATA toll, a different IC for interLATA toll, or the same IC for both. This IC is referred to as the end users primary IC and is defined by a unique Carrier Identification Code (CIC) shown on the customer service record. Selection of an intraLATA IC by an end user is subject to the terms and conditions following.

(B) Existing end users may exercise an initial free presubscription choice. If the end user is unable to make an affirmative choice for an intraLATA IC at the time of ILP implementation that end user will default to the Primary Toll Carrier (PTC). The initial free choice must be made within 90 days following implementation of ILP, any changes made after initial selection will be subject to a nonrecurring charge as set forth in Section 17.4.4(I).

New end users who subscribe to service after the presubscription implementation date will be asked to select a primary IC, at no charge, when they place an order for Telephone Company Exchange Service. If a customer cannot decide upon an intraLATA IC, the customer will be assigned a 'No-PIC' and will have to dial an access code to make intraLATA toll calls. The initial free selection must be made within 90 days following implementation of ILP, any changes made after initial selection will be subject to a nonrecurring charge as set forth in Section 17.4.4(I).

(C) In the event that two or more ICs have provided to the Telephone Company notifications with the same authorization date(s), and one IC notification has already been processed by the Telephone Company, those IC notifications not yet processed would be returned to the ICs.

13.5 IntraLATA Presubscription (Cont'd)

(D) If an IC elects to discontinue its Feature Group D service offering prior to or within 2 years of the conversion, the IC will notify the Telephone Company of the cancellation. The IC will also notify all end users which selected them that they are canceling their service and that they should contact the Telephone Company to select a new primary IC. The IC will also inform the end user that it will pay the presubscription change charge. The canceling IC will then be billed by the Telephone Company the appropriate charge for each end user for a period of two years from the discontinuance of Feature Group D service.

(E) If an IC elects to change or discontinue use of a Carrier Identification Code (CIC) for any reason other than those set forth in (E) above, the IC will identify to the Telephone Company any affected end users and advise the Telephone Company of the new CIC to be assigned to these end users. If the CIC change involves a change of carrier for any end users, the IC will notify the affected end users of the change. The Telephone Company will change the predesignated carrier code of each end user identified by the IC to the new CIC and bill the IC the nonrecurring charge set forth in Section 17.4.4(M) following for each end user line or trunk that is changed.

(F) ILP costs shall be recovered from each IC, operating in the state, calculated using their monthly originating intrastate switched access minutes of use over a three year period. The monthly charge for cost recovery is set forth in Section 17.4.4(I)(1) following.

13.6 Reserved For Future Use

13.7 Reserved For Future Use

Additional Engineering, Additional Labor and Miscellaneous Services

13.8 Blocking Service

13.8.1 Reserved For Future Use

13.8.2 900 Blocking Service

The Telephone Company will provide 900 Blocking Service to customers who obtain local exchange service from the Telephone Company under its general or local exchange tariffs and to customers who obtain Feature Group A Switched Access service under this tariff. This service is only provided at appropriately equipped end offices. Those offices providing 900 Blocking Service are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4.

Additional Engineering, Additional Labor and Miscellaneous Services

13.8 Blocking Service (Cont'd)

13.8.2 900 Blocking Service (Cont'd)

On each line or trunk for which 900 Blocking Service is ordered, the Telephone Company will block all direct dialed calls placed to a 900 number. When capable, the Telephone Company will route the blocked calls to a recorded message.

A Blocking Service charge as set forth in 17.4.4(K) following is applicable when ordered by the end user customer with the following exception:

- Blocking access to 900 Service is offered to all subscribers at no charge at the time telephone service is established at a new number and for 60 days thereafter.

The Blocking Service charge is applied for each line, trunk or Feature Group A Switched Access service to which 900 Blocking Service is added or removed. Requests by subscribers to remove 900 Blocking Service must be in writing. This charge does not apply when blocking is removed from an exchange line or trunk or Feature Group A Switched Access line at the same time that it is disconnected.

Additional Engineering, Additional Labor and Miscellaneous Services

13.9 Billing Name and Address Service

13.9.1 General Description

(A) Billing Name and Address (BNA) Service is the provision by the Telephone Company to an intrastate service provider who is a customer of the Telephone Company of the complete billing name, street address, city or town, state and zip code for a telephone number or calling card account number assigned by the Telephone Company. An intrastate service provider is defined as an interexchange carrier, an operator service provider, an enhanced service provider or any other provider of intrastate telecommunications services.

(B) BNA Service is provided only for the purposes of allowing customers to bill their end users for telephone services provided by the customer, order entry and customer service information, fraud prevention, identification of end users who have moved to a new address, any purpose associated with equal access requirement, and information associated with Local Exchange Carrier (LEC) calling card calls, collect calls and third party calls.

BNA information may not be resold or used for any other purpose including, but not limited to, marketing or merchandising activities.

(C) BNA information associated with listed/published telephone numbers will be provided. Requests for BNA information associated with non-published and unlisted telephone numbers will be provided, unless the subscriber to a nonpublished or unlisted telephone number has affirmatively requested that its BNA not be disclosed.

13.9.2 Undertaking of the Telephone Company

(A) A standard format for the receipt of BNA requests and the provision of BNA information will be established by the Telephone Company.

Additional Engineering, Additional Labor and Miscellaneous Services

13.9 Billing Name and Address Service (Cont'd)

13.9.2 Undertaking of the Telephone Company (Cont'd)

(B) Standard response to BNA requests will be by First Class Mail. Standard format will be on paper. Optional Magnetic Tape formatting will be offered where available.

(C) Where facilities are available, the customer may request an optional specialized output format required to meet a specific customer need.

(D) The Telephone Company will make every effort to provide accurate and complete BNA data. The Telephone Company makes no warranties, expressed or implied, as to the accuracy or completeness of this information.

(E) The Telephone Company will not disclose BNA information to parties other than intrastate service providers and their authorized billing agents as defined in 13.9.1(A) preceding. BNA disclosure is limited to those purposes as defined in 13.9.1(B) preceding.

(F) The Telephone Company reserves the right to request from an intrastate service provider who has placed an order for BNA service, the source data upon which the interexchange carrier has based the order. This request is made to ensure that the BNA information is to be used only for purposes as described in 13.9.1(B) preceding. The Telephone Company will not process the order until such time as the intrastate service provider supplies the requested data.

13.9.3 Obligations of the Customer

(A) The customer shall order BNA Service on a separate BNA Order. The order must identify both the customer's authorized representative and the address to which the information is to be sent.

Additional Engineering, Additional Labor and Miscellaneous Services

13.9 Billing Name and Address Service (Cont'd)

13.9.3 Obligations of the Customer

(B) The customer shall treat all BNA information as confidential. The customer shall insure that BNA information is used only for the purposes as described in 13.9.1(B) preceding.

(C) The customer shall not publicize or represent to others that the Telephone Company jointly participates with the customer in the development of the customer's end user records it assembles through the use of BNA Service.

(D) Upon request, the customer will provide to the Telephone Company the source data upon which the customer has based an order for BNA service. The Telephone Company will not process the order until such time as the customer provides the requested data.

13.9.4 Rate Regulations

(A) For each order for BNA information received by the Telephone Company, a BNA Order charge applies. In addition, a charge applies for each customer specific record provided. The BNA Order Charge and the Per Record Charge are specified in 17.4.4 following.

(B) Where available, the customer may order the response formatted on Magnetic Tape. The Optional Magnetic Tape Charge is specified in 17.4.4 following and is in addition to the BNA Order Charge and the BNA Record Charge.

(C) Where available, the customer may order an output format other than a standard paper format in order to meet a customer's specific requirement. This option is subject to an hourly programming charge as specified in 17.4.4 following and is in addition to the BNA Order Charge and the BNA Record Charge.

Additional Engineering, Additional Labor and Miscellaneous Services

13.10 Provision of Access Service Billing Information

Billing Mediums

The customer shall select the primary medium in which its official access service bills and customer service records are to be provided. This selection shall be on an account level basis, and shall be submitted in writing to the Telephone Company.

(A) Primary Bill

At no charge to the customer, the customer shall select as the primary billing medium one of the following billing formats: standard paper, magnetic tape, or data transmission. The primary billing medium shall serve as the customer's official bill. Should the customer fail to make a selection, the official copy of the customer's access service bills and customer service records will be provided in the standard paper format.

Upon acceptance by the Telephone Company of an order for electronic data transfer, the Telephone Company will determine the period of time to implement the transmission of such material on an individual order basis.

When magnetic tape or data transmission is requested as the primary monthly bill, the customer must sign a Document of Understanding.

When magnetic tape or data transmission is requested as the primary monthly bill, the customer will receive an abbreviated bill in paper format. The abbreviated bill will contain the following sections: All Page, Balance Due, Meet Point Billing Cross Reference, Detail of Payments Applied, Detail of Balance Due, Detail of Late Payment Charges, and Other Charges and Credits.
The Telephone Company will accept a request for change from one form of primary billing medium to another at no charge to the customer.

(B) Secondary/Additional Bills

At the customer's written request, a secondary bill, in addition to the customer's primary bill will be provided on a monthly basis. The customer may choose as the medium for the secondary bill one of the following formats: standard paper, magnetic tape, or data transmission. Charges for the provision of a secondary bill are set forth in 17.4.4 following.

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13.10 Provision of Access Service Billing Information

(B) Secondary/Additional Bills (Cont'd)

Additional copies of a customer's previous monthly access service bills will be provided in paper format, or magnetic tape/data transmission if the original bill was generated in this format. Requests for additional copies of previous monthly bills must be submitted in writing and shall specify the bill dates requested. Such a request, when not the result of a Telephone Company error will be subject to charges as set forth in 17.4.4 following. Unless specified otherwise, additional copies of the customer's access service bills and/or magnetic tapes will be sent via U.S. Mail Service.

13.11 Originating Line Screening (OLS) Service

The Telephone Company will provide OLS Service to end user customers who obtain local exchange service from the Telephone Company under its general or local exchange tariffs. OLS service enables customers to determine whether there are billing restrictions on lines from which a call is placed.

Originating Line Screening information is provided through Flexible Automatic Number Identification (Flex ANI) described in 6.10.3. Flex ANI provides a two digit code (information digits) that identifies the nature of the originating exchange line to the customer. The OLS service delivers a code on all calls that identifies an exchange line as being used for inmate services (Code 29) or private payphone (code 70).

Additional Engineering, Additional Labor and Miscellaneous Services

13.12 Coin Supervision Additive Service

The Telephone Company will provide Coin Supervision Additive Service to Payphone Service Providers (PSPs) who order local exchange service lines for the provision of pay telephone service lines requires central office coin supervision capability. The local exchange service is obtained from and subject to the terms and conditions under the Telephone Company's general and/or local tariffs.

Coin Supervision Additive Service provides the capability of central office line equipment line equipment to pass signals and/or tones from an exchange service line to a trunk terminating at the PSP's operator service provider. These signals enable an operator service provider to recognize coin deposits and return coins to the pay telephone user. Coin Supervision Additive Service also permits a suitably equipped operator service provider to automatically ring back the originating exchange service line upon completion of a call.

Windstream South Carolina, Inc.

ISSUED: July 17, 2006

BY: Vice President

Section 14
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EFFECTIVE: July 17, 2006

Exceptions to Access Service Offerings

CONTENTS

Windstream South Carolina, Inc.

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Exceptions to Access Service Offerings

The services offered under the provisions of this tariff are subject to availability as set forth in 2.1.4 preceding. In addition, the following exceptions apply:

(Paragraphs 14.1 through 14.5 following are reserved for future listings as a result of a subsequent survey. In the meantime, in planning an end-to-end service, the customer should contact the Telephone Company in each customer designated premises city to assure itself that all of the service or service components required for a given customer service are currently available.)

14.1 The following service(s) is (are) not offered in the operating territory of listed Issuing Carriers.

(Reserved for future use.)

14.2 The following offering(s) is (are) limited to existing locations. No inside moves, rearrangements or additions will be permitted.

(Reserved for future use.)

14.3 The following offering(s) is (are) limited to existing locations. Inside moves or rearrangements may be undertaken. However, no additions will be permitted.

(Reserved for future use.)

14.4 The following offering(s) is (are) limited to existing locations where additional units may be added for growth. Inside moves or rearrangements may be undertaken.

(Reserved for future use.)

14.5 The following offering(s) is (are) limited to existing locations where additional units may be added for growth. However inside moves or rearrangements will not be permitted.

(Reserved for future use.)

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Access Service Interfaces and Transmission Specifications

CONTENTS

Access Service Interfaces and Transmission Specifications

Section 15.1 contains Switched Access Service Options (which are comprised of Interface Groups, Supervisory Signaling, Entry Switch Receive Level and Local Transport Termination) and Transmission Specifications. Section 15.2 describes Special Access Service Network Channel (NC) codes and Network Channel Interface (NCI) codes. Section 15.3 contains Interface Group, Premises Interface Code and Standard Transmission Specifications applicable to Directory Access Service.

15.1 Switched Access Service

Ten Interface Groups are provided for terminating the Local Transport Entrance Facility at the customer's designated premises. Each Interface Group provides a specified premises interface (e.g., two-wire, four-wire, DS1, etc.). Where transmission facilities permit, and at the option of the customer, the Entrance Facility may be provided with optional features as set forth in 15.1.1 following.

As a result of the customer's access order and the type of Telephone Company transport facilities serving the customer designated premises, the need for signaling conversions or two-wire or four-wire conversions, or the need to terminate digital or high frequency facilities in channel bank equipment may require that Telephone Company equipment be placed at the customer designated premises. For example, if a voice frequency interface is ordered by the customer and the Telephone Company facilities serving the customer designated premises are digital, then Telephone Company channel bank equipment must be placed at the customer designated premises in order to provide the voice frequency interface ordered by the customer.

15.1.1 Local Transport Interface Groups

Interface Groups are combinations of technical parameters which describe the Telephone Company handoff at the point of termination at the customer designated premises. The technical specifications concerning the available interface groups are set forth in (A) through (D) following.

Access Service Interfaces and Transmission Specifications

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

Interface Group 1 is provided with Type C Transmission Specifications, as set forth in 15.1.2(C) following, and Interface Groups 2 through 10 are provided with Type A or B Transmission Specifications, as set forth respectively in 15.1.2(E) and (F) following, depending on the Feature Group and whether the Access Service is routed directly or through an access tandem. All Interface Groups are provided with Data Transmission Parameters.

Only certain premises interfaces are available at the customer designated premises. The premises interfaces associated with the Interface Groups may vary among Feature Groups.

(A) Interface Group 1

Interface Group 1, except as set forth in the following, provides two-wire voice frequency transmission at the point of termination at the customer designated premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

Interface Group 1 is not provided in association with FGC and FGD when the first point of switching is an access tandem. In addition, Interface Group 1 is not provided in association with FGB, FGC or FGD when the first point of switching provides only four-wire terminations.

Access Service Interfaces and Transmission Specifications

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(A) Interface Group 1 (Cont'd)

The transmission path between the point of termination at the customer designated premises and the customer serving wire center may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of 300 to 3000 Hz.

The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start signaling. When the interface is associated with FGB, FGC or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

(B) Interface Group 2

Interface Group 2 provides four-wire voice frequency transmission at the point of termination at the customer designated premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

The transmission path between the point of termination at the customer designated premises and the customer serving wire center may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

Access Service Interfaces and Transmission Specifications

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(B) Interface Group 2 (Cont'd)

The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start signaling. When the interface is associated with FGB, FGC or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

(C) Interface Groups 3 through 5

Interface Groups 3 through 5 provide analog transmission at the point of termination at the customer designated premises. The various interfaces are capable of transmitting electrical signals at the frequencies illustrated following, with the capability to channelize voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Groups are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex equipment to derive the transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.

The interfaces are provided with individual transmission path SF supervisory signaling.

Interface Group Identification No.	Transmission Frequency Bandwidth	Analog Hierarchy Level	Maximum No. of Channelized Voice Freq. Trans. Paths
3	60-108 kHz	Group	12
4	312-552 kHz	Supergroup	60
5	564-3084 kHz	Mastergroup	600

Access Service Interfaces and Transmission Specifications

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(D) Interface Groups 6 through 10

Interface Groups 6 through 10 provide digital transmission at the point of termination at the customer designated premises. The various interfaces are capable of transmitting electrical signals at the nominal bit rates illustrated following, with the capability to channelize voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide a DS1 signal(s) in D3/D4 format.

The interfaces are provided with individual transmission path bit stream supervisory signaling.

Interface Group Identification No.	Nominal Bit Rate (Mbps)	Digital Hierarchy Level	Max. No. of Channelized Voice Freq. Trans. Paths
6	1.544	DS1	24
7	3.152	DS1C	48
8	6.312	DS2	96
9	44.736	DS3	672
10	274.176	DS4	4032

Access Service Interfaces and Transmission Specifications

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(E) Local Transport Optional Features

Where transmission facilities permit, the Telephone Company will, at the option of the customer, provide the following features in association with Local Transport. An Access Order Charge as specified in 17.4.1(A) following is applicable on a per order basis when nonchargeable optional features are added subsequent to the installation of service.

- Customer Specified Entry Switch Receive Level

  Customer Specified Entry Switch Receive Level allows the customer to specify the receive transmission level at the first point of switching. The range of transmission levels which may be specified is described in Technical Reference TR-NPL-000334. This feature is available with Interface Groups 2 through 10 for Feature Groups A and B.

- Customer Specification of Local Transport Termination

  Customer Specification of Local Transport Termination allows the customer to specify, for Feature Group B routed directly to an end office or access tandem, a four-wire termination of the Local Transport at the first point of switching in lieu of a Telephone Company selected two-wire termination. This option is available only when the Feature Group B arrangement is provided with Type B Transmission Specifications.

- Supervisory Signaling

  Supervisory Signaling allows the customer to order an optional supervisory signaling arrangement for each transmission path provided where the transmission parameters permit, and where signaling conversion is required by the customer to meet its signaling capability.

Access Service Interfaces and Transmission Specifications

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(E) Local Transport Optional Features (Cont'd)

The Interface Groups, as described in (A) through (D) preceding, represent industry standard arrangements. Where transmission parameters permit, the customer may select the following optional signaling arrangements in place of the signaling arrangements standardly associated with the Interface Groups.

- For Interface Groups 1 and 2 associated with FGB, FGC or FGD

  DX Supervisory Signaling,
  E&M Type I Supervisory Signaling,
  E&M Type II Supervisory Signaling, or
  E&M Type III Supervisory Signaling

- For Interface Group 2 associated with FGB, FGC or FGD and in addition to the preceding

  SF Supervisory Signaling or
  Tandem Supervisory Signaling

- For Interface Groups 3 through 5

  Optional Supervisory Signaling Not Available

- For Interface Groups 6 through 10

  These Interfaces Groups may, at the option of the customer, be provided with individual transmission path SF supervisory signaling where such signaling is available in Telephone Company central offices. Generally such signaling is available only where the first point of switching provides an analog (i.e., non digital) interface to the transport termination.

  These optional Supervisory Signaling arrangements are not available in combination with the SS7 optional feature as described in 6.8.2(C) (2) preceding.

  Additionally, in (F) following, there is a matrix of available Premises Interface Codes as a function of Interface Group, Telephone Company Switch Supervisory Signaling and Feature Group.

Access Service Interfaces and Transmission Specifications

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(F) Available Premises Interface Codes

Following is a matrix showing premises interface codes which are available for each Interface Group. Their availability is a function of the Telephone Company switch supervisory signaling and Feature Group. For explanations of these codes, see the Parameter Codes and Options as set forth in 15.2.2(A) following.

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group A	B	C	D
1	LO	2LS2	X			
	LO	2LS3	X			
	GO	2GS2	X			
	GO	2GS3	X			
	LO, GO	2DX3	X			
	LO, GO	4EA3-E	X			
	LO, GO	4EA3-M	X			
	LO, GO	6EB3-E	X			
	LO, GO	6EB3-M	X			
	RV, EA, EB, EC3	2DX3		X	X	X
	RV, EA, EB, EC	4EA3-E		X	X	X
	RV, EA, EB, EC	4EA3-M		X	X	X
	RV, EA, EB, EC	6EB3-E		X	X	X
	RV, EA, EB, EC	6EB3-M		X	X	X
	EA, EB, EC	6EC3			X	X
	RV	2RV3-0		X	X	X
	RV	2RV3-T		X	X	X
	SS7	2NO2			X	X
2	LO, GO	4SF2		X		
	LO, GO	4SF3		X		
	LO	4LS2		X		
	LO	4LS3		X		
	LO	6LS2		X		

Access Service Interfaces and Transmission Specifications

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(F) Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group A	B	C	D
2 (Cont'd)	GO	4GS2	X			
	GO	4GS3	X			
	GO	6GS2	X			
	LO, GO	4DX2	X			
	LO, GO	4DX3	X			
	LO, GO	6EA2-E	X			
	LO, GO	6EA2-M	X			
	LO, GO	8EB2-E	X			
	LO, GO	8EB2-M	X			
	LO, GO	6EX2-B	X			
	RV, EA, EB, EC	4SF2		X	X	X
	RV, EA, EB, EC	4SF3		X		
	RV, EA, EB, EC	4DX2		X	X	X
	RV, EA, EB, EC	4DX3			X	
	RV, EA, EB, EC	6DX2				X
	RV, EA, EB, EC	6EA2-E		X	X	X
	RV, EA, EB, EC	6EA2-M		X	X	X
	RV, EA, EB, EC	8EB2-E		X	X	X
	RV, EA, EB, EC	8EB2-M		X	X	X
	EA, EB, EC	8EC2-M			X	X
	RV	4RV2-O		X	X	X
	RV	4RV2-T		X	X	X
	RV	4RV3-O		X	X	
	RV	4RV3-T		X	X	
	SS7	4NO2			X	X
3	LO, GO	4AH5-B	X			
	RV, EA, EB, EC	4AH5-B		X	X	X
	SS7	4AH5-B			X	X
4	LO, GO	4AH6-C	X			
	RV, EA, EB, EC	4AH6-C		X	X	X
	SS7	4AH6-C			X	X
5	LO, GO	4AH6-D	X			
	RV, EA, EB, EC	4AH6-D		X	X	X
	SS7	4AH6-D			X	X

Access Service Interfaces and Transmission Specifications

15.1 Switched Access Service (Cont'd)

15.1.1 Local Transport Interface Groups (Cont'd)

(F) Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group A	B	C	D
6	LO, GO	4DS9-15	X			
	LO, GO	4DS9-15L	X			
	RV, EA, EB, EC	4DS9-15		X	X	X
	RV, EA, EB, EC	4DS9-15L		X	X	X
	SS7	4DS9-15			X	X
7	LO, GO	4DS9-31	X			
	LO, GO	4DS9-31L	X			
	RV, EA, EB, EC	4DS9-31		X	X	X
	RV, EA, EB, EC	4DS9-31L		X	X	X
	SS7	4DS9-31			X	X
8	LO, GO	4DS0-63	X			
	LO, GO	4DS0-63L	X			
	RV, EA, EB, EC	4DS0-63		X	X	X
	RV, EA, EB, EC	4DS0-63L		X	X	X
	SS7	4DS0-63			X	X
9	LO, GO	4DS6-44	X			
	LO, GO	4DS6-44	X			
	RV, EA, EB, EC	4DS6-44		X	X	X
	RV, EA, EB, EC	4DS6-44L		X	X	X
	SS7	4DS6-44			X	X
10	LO, GO	4DS6-27	X			
	LO, GO	4DS6-27L	X			
	RV, EA, EB, EC	4DS6-27		X	X	X
	RV, EA, EB, EC	4DS6-27L		X	X	X
	SS7	4DS6-27			X	X

Access Service Interfaces and Transmission Specifications

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications

Descriptions of the transmission specifications available with each Feature Group as a function of the Interface Group selected by the customer, are set forth in (A) through (D) following. Descriptions of each of the these Standard Transmission Specifications and the two Data Transmission Parameters mentioned are set forth respectively in (E) through (G) and 15.1.3(A) and (B) following:

(A) Feature Group A

FGA is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the first point of switching. Type C Transmission Specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2 through 10. Type DB Data Transmission Parameters are provided with FGA to the first point of switching.

(B) Feature Group B

FGB is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the end office when routed directly or to the first point of switching when routed via an access tandem. Type C Transmission Specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2 through 10. Type DB Data Transmission Parameters are provided with FGB to the first point of switching.

Access Service Interfaces and Transmission Specifications

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(C) Feature Group C

FGC is provided with either Type B or Type C Transmission Specifications as follows:

- When routed directly to the end office either Type B or Type C is provided.

- When routed to an access tandem only Type B is provided.

- Type B or Type C is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1 when routed directly to an end office. Type B is provided with Interface Groups 2 through 10, whether routed directly to an end office or to an access tandem.

Type DB Data Transmission Parameters are provided with FGC for the transmission path between the customer designated premises and the end office when directly routed to the end office, and between the customer designated premises and the access tandem and between the access tandem and the end office when routed via an access tandem.

Access Service Interfaces and Transmission Specifications

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(D) Feature Group D

FGD is provided with either Type A, Type B or Type C Transmission Specifications as follows:

- When routed to the end office either Type B or C is provided.
- When routed to an access tandem only Type A is provided.
- Type A is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1. Type A and Type B Transmission Specifications are provided with Interface Groups 2 through 10.

Type DB Data Transmission Parameters are provided with FGD for the transmission path between the customer designated premises and the end office when directly routed to the end office. Type DA Data Transmission Parameters are provided for the transmission path between the customer designated premises and the access tandem and between the access tandem and the end office when routed via an access tandem.

(E) Type A Transmission Specifications

Type A Transmission Specifications is provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is $\pm$ 2.0 dB

Access Service Interfaces and Transmission Specifications

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(E) Type A Transmission Specifications (Cont'd)

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss at 1004 Hz is -1.0 dB to +3.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

Route Miles	C-Message Noise
less than 50	32 dBrnCO
51 to 100	34 dBrnCO
101 to 200	37 dBrnCO
201 to 400	40 dBrnCO
401 to 1000	42 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBmO holding tone, is less than or equal to 45 dBrnCO.

Access Service Interfaces and Transmission Specifications

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(E) Type A Transmission Specifications (Cont'd)

(5) Echo Control

Echo Control, identified as Equal Level Echo Path Loss, and expressed as Echo Return Loss and Singing Return Loss, is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

	Echo Return Loss	Singing Return Loss
POT to Access Tandem	21 dB	14
POT to End Office		
- Direct	N/A	N/A
- Via Access Tandem	16 dB	11 dB

(6) Standard Return Loss

Standard Return Loss expressed as Echo Return Loss and Singing Return Loss on two-wire ports of a four-wire point of termination shall be equal to or greater than:

Echo Return Loss	Singing Return Loss
5 dB	2.5 dB

Access Service Interfaces and Transmission Specifications

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(F) Type B Transmission Specifications

Type B Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is ± 2.5 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +4.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

	C-Message Noise*	
Route Miles	Type B1	Type B2
less than 50	32 dBrnCO	35 dBrnCO
51 to 100	33 dBrnCO	37 dBrnCO
101 to 200	35 dBrnCO	40 dBrnCO
201 to 400	37 dBrnCO	43 dBrnCO
401 to 1000	39 dBrnCO	45 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 47 dBrnCO.

* For Feature Groups C and D only Type B2 will be provided. For Feature Groups A and B, Type B1 or B2 will be provided as set forth in Technical Reference TR-NPL-000334.

Access Service Interfaces and Transmission Specifications

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(F) Type B Transmission Specifications (Cont'd)

(5) Echo Control

Echo Control, identified as Impedance Balance for FGA and FGB and Equal Level Echo Path Loss for FGC and FGD, and expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. The ERL and SRL also differ by Feature Group, type of termination, and type of transmission path. They are greater than or equal to the following:

	Echo Return Loss	Singing Return Loss
POT to Access Tandem		
- Terminated in 4-Wire trunk	21 dB	14 dB
- Terminated in 2-Wire trunk	16 dB	11 dB
POT to End Office		
- Direct	16 dB	11 dB
- Via Access Tandem		
. For FGB access	8 dB	4 dB
. For FGC access (Effective 4-Wire transmission path at end office)	16 dB	11 dB
. For FGC access (Effective 2-Wire transmission path at end office)	13 dB	6 dB

Access Service Interfaces and Transmission Specifications

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(F) Type B Transmission Specifications (Cont'd)

(6) Standard Return Loss

Standard Return Loss, expressed as Echo Return Loss and Singing Return Loss, on two-wire ports of a four-wire point of termination shall be equal to or greater than:

Echo Return Loss	Singing Return Loss
5 dB	2.5 dB

(G) Type C Transmission Specifications

Type C Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is ± 3.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to + 5.5 dB.

Access Service Interfaces and Transmission Specifications

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(G) Type C Transmission Specifications (Cont'd)

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

Route Miles	C-Message Noise*	
	Type C1	Type C2
less than 50	32 dBrnCO	38 dBrnCO
51 to 100	33 dBrnCO	39 dBrnCO
101 to 200	35 dBrnCO	41 dBrnCO
201 to 400	37 dBrnCO	43 dBrnCO
401 to 1000	39 dBrnCO	45 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 47 dBrnCO.

* For Feature Groups C and D only Type C2 will be provided. For Feature Groups A and B, Type C1 or C2 will be provided as set forth in Technical Reference TR-NPL-000334.

Access Service Interfaces and Transmission Specifications

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(G) Type C Transmission Specifications (Cont'd)

(5) Echo Control

Echo Control, identified as Return Loss and expressed as Echo Return Loss and Singing Return Loss is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

	Echo Return Loss	Singing Return Loss
POT to Access Tandem	13 dB	6 dB
POT to End Office		
- Direct	13 dB	6 dB
- Via Access Tandem (for FGB only)	8 dB	4 dB

15.1.3 Data Transmission Parameters

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are provided for the Feature Group arrangements. Type DB is provided with Feature Groups A, B and C and also with Feature Group D when Feature Group D is directly routed to the end office. Type DA is only provided with Feature Group D and only when routed via an access tandem. Following are descriptions of each.

(A) Data Transmission Parameters Type DA

(1) Signal to C-Notched Noise Ratio

The Signal to C-Notched Noise Ratio is equal to or greater than 33 dB.